Having thus described the invention, it is now claimed:

1.   A method for executing an algorithm for decrypting data,
comprising:

loading into a memory in consecutive order a plurality of keys respectively
associated with a plurality of data frames including encrypted data, wherein each said key
is comprised of a plurality of key values; and

executing a decryption algorithm simultaneous with loading of key values
into the memory, wherein said decryption operation uses key values loaded into memory
to decrypt said plurality of data frames.

2.   A method according to claim 1, said step of executing the
decryption algorithm occurring simultaneously with loading of key values associated
with subsequent data frames of the plurality of data frames.

3.   A method for executing an algorithm for encrypting data,
comprising:

loading into a memory in consecutive order a plurality of keys respectively
associated with a plurality of data frames including unencrypted data, wherein each said
key is comprised of a plurality of key values; and

executing an encryption algorithm simultaneous with loading of key
values into the memory, wherein said decryption operation uses key values loaded into
memory to decrypt said plurality of data frames.

4.   A method according to claim 3, said step of executing the encryption algorithm occurring simultaneously with loading of key values associated with subsequent data frames of the plurality of data frames.

5.   A method for executing an algorithm for decrypting data, comprising:

loading into a memory in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values;

initializing a table for decryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said initializing step occurs prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values; and

executing an algorithm to decrypt the first data frame using the initialized table, said execution occurring simultaneous with loading of key values associated with subsequent data frames of the plurality of data frames.

6.   A method according to claim 5, wherein said method further comprises:

initializing said table for decryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initializing step for the second data frame occurs simultaneous with loading of key values.

7.   A method for executing an algorithm for encrypting data, comprising:

loading into a memory in consecutive order a plurality of keys respectively associated with a plurality of data frames including unencrypted data, wherein each said key is comprised of a plurality of key values;

initializing a table for encryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said initializing step occurs prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values; and

executing an algorithm to encrypt the first data frame using the initialized table, said execution occurring simultaneous with loading of key values associated with subsequent data frames of the plurality of data frames.

8.   A method according to claim 7, wherein said method further comprises:

initializing said table for encryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initializing step for the second data frame occurs simultaneous with loading of key values.

9.   A system for decrypting data, comprising:

means for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values; and

means for executing a decryption algorithm simultaneous with storing of key values into the means for storing, wherein said decryption operation uses key values loaded into the means for storing to decrypt said plurality of data frames.

-18-

10.   A system according to claim 9, wherein said means for executing the decryption algorithm decrypts a data frame simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames, in said means for storing.

11.   A system for encrypting data, comprising:

means for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including unencrypted data, wherein each said key is comprised of a plurality of key values; and

means for executing an encryption algorithm simultaneous with storing of key values into the means for storing, wherein said decryption operation uses key values loaded into the means for storing to decrypt said plurality of data frames.

12.   A system according to claim 11, wherein said means for executing the decryption algorithm encrypts a data frame simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames, in said means for storing.

13.   A system for executing an algorithm for decrypting data, comprising:

means for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values;

means for initializing a table for decryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said means for initializing commences initialization of the table prior to loading

of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values; and

means for executing an algorithm to decrypt the first data frame using the initialized table, wherein said means for executing decrypts the first data frame simultaneous with storing of key values associated with subsequent data frames of the plurality of data frames.

14.   A system according to claim 13, wherein said system further comprises:

means for initializing said table for decryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization of the second data frame occurs simultaneously with storing of key values.

15.   A system for executing an algorithm for encrypting data, comprising:

means for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including unencrypted data, wherein each said key is comprised of a plurality of key values;

means for initializing a table for encryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said initialization occurs prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with storing of key values; and

means for executing an algorithm to encrypt the first data frame using the initialized table, wherein said means for execution executes the algorithm simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames.

-20-

16. A system according to claim 15, wherein said system further comprises:

means for initializing said table for encryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization for the second data frame occurs simultaneously with loading of key values.

17. A system for decrypting data, comprising:

a dual port memory for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values; and

a controller for executing a decryption algorithm simultaneous with storing of key values into the dual port memory, wherein said decryption operation uses key values loaded into the dual port memory to decrypt said plurality of data frames.

18. A system according to claim 17, wherein said controller decrypts a data frame simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames, in said dual port memory.

19. A system for encrypting data, comprising:

a dual port memory for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values; and

a controller for executing an encryption algorithm simultaneous with storing of key values into the dual port memory, wherein said encryption operation uses key values loaded into the dual port memory to encrypt said plurality of data frames.

-21-

20.   A system according to claim 19, wherein said controller encrypts a data frame simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames, in said dual port memory.

21.   A system for executing an algorithm for decrypting data, comprising:

a dual port memory for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values; and

a controller for:

(a) initializing a table for decryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said controller commences initialization of the table prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values, and

(b) executing an algorithm to decrypt the first data frame using the initialized table, wherein said controller decrypts the first data frame simultaneous with storing of key values associated with subsequent data frames of the plurality of data frames.

22.   A system according to claim 21, wherein said controller initializes said table for decryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization of the second data frame occurs simultaneously with storing of key values.

-22-

23.   A system for executing an algorithm for encrypting data, comprising:

a dual port memory for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including unencrypted data, wherein each said key is comprised of a plurality of key values; and

a controller for:

(a) initializing a table for encryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said controller commences initialization of the table prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values, and

(b) executing an algorithm to encrypt the first data frame using the initialized table, wherein said controller encrypts the first data frame simultaneous with storing of key values associated with subsequent data frames of the plurality of data frames.

24.   A system according to claim 23, wherein said controller initializes said table for encryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization of the second data frame occurs simultaneously with storing of key values.